## ISSUE SLIP STAPLE AREA (for additional cross references)

| POSITION                  | INITIALS | ID NO. | DATE      |
|---------------------------|----------|--------|-----------|
|                           |          | ļ      |           |
| FEE DETERMINATION         |          | -      | 02-27     |
| O.I.P.E. CLASSIFIER       | MATN     | 150    | 02 27-0/1 |
| FORMALITY REVIEW          | Ha.      | 120    | 05-02-01  |
| RESPONSE FORMALITY REVIEW | 7        |        |           |
|                           |          | _      |           |

## INDEX OF CLAIMS

| <br>Rejected               | Ν | Non-elected  |
|----------------------------|---|--------------|
| Allowed                    |   | Interference |
| (Through numeral) Canceled | Α | Appeal       |
| Restricted                 |   | Objected     |

|              |         |      |              |          |          |   |          | ÷      |   |           |  |   |          |              | ••• |
|--------------|---------|------|--------------|----------|----------|---|----------|--------|---|-----------|--|---|----------|--------------|-----|
| Cla          | im      | _    | _            |          | _        |   | _        | Dat    | e |           |  |   |          |              | ٦   |
|              | riginal | 1860 |              |          |          |   |          |        |   |           |  |   |          | T            |     |
| Final        | 2       | 1/2  | <u>}</u>     | 4        |          | + | 4        |        | L | +         | _  |   | -        | $\downarrow$ |     |
|              | 2       | V    | ╁            | ┪        | _        | t | $\dashv$ |        | ┝ | †         | -  | _ | $\vdash$ | ╁            | _   |
|              | 3       | V    | ォ            | 1        |          | t | -        |        | H | $\forall$ |  | _ | +        | t            | _   |
| -            | 4       | V    | ╁            | -        | _        | + | -+       | _      | H | $\dashv$  | -  |   | t        | 十            | _   |
| -            | 5       | 1.7  | +            | ┪        | _        | t | $\dashv$ | _      | t | 7         |  | _ | T        | †            | _   |
| <del> </del> | 6       | V    | $^{+}$       | -        | •        | † | $\dashv$ |        | t | 7         |  |   | T        | Ť            | _   |
| $\vdash$     | 7       | v    | 1            | ┪        |          | † | $\dashv$ |        | t | ┪         |  | _ | Τ        | Ť            |     |
| ┢─           | 8       | v    | オ            | _        | _        | † | _        |        | t | 1         | _  | _ | T        | †            | _   |
| ┝            | 9       | ľ    | 1            | _        |          | 1 |          |        | t | ┪         |  |   | T        | 1            | _   |
| ┝            | 10      | +    | 1            | _        | _        | † | _        | _      | T | 7         | _  | Г | T        | T            | _   |
| ┢            | 111     |      | 1            | _        | $\vdash$ | † | _        |        | T | T         |  |   | 1        | 1            | _   |
| H            |         |      | 1            |          | ┢        | 1 |          |        | ✝ | 7         |  | Г | T        | 1            |     |
| ┢            | 12      | ħ.   | 7            | _        |          | 1 | $\neg$   | _      | Ť | 7         |  |   | T        | T            |     |
| Н            | 14      |      | 7            | _        | Г        | 1 |          | Г      | T | ┪         |  | Γ | T        | 7            |     |
|              | 15      | +:   | オ            | _        | 1        | 1 |          | Г      | 1 | $\neg$    |  | Г | T        | 1            | _   |
|              | 16      | -    | 1            |          | Г        | 1 |          | 1      | t |           | _  | Г | T        | T            | _   |
|              | 17      | +•   | Ħ            |          | Г        | ٦ |          |        | Ť | _         |  |   | T        | T            | _   |
| ┢            | 18      | -    | לל           |          | T        | 1 |          | Т      | t | _         | _  | T | T        | 1            | _   |
| 一            | 19      | 4    | 7            | _        | t        |   | 7        | İ      | Ť |           |  | T | T        |              |     |
| H            | 20      | +*   | 7            | _        | ╁        | 7 | <u> </u> | ┢      | † |           | _  | ✝ | T        | 1            | _   |
| $\vdash$     | 21      | Ť    | <del>/</del> |          | ┝        | - | H        | ┢      | + | _         | _  | t | +        | ╅            | _   |
| $\vdash$     |         | _    | 4            | _        | ┝        | - | -        | ⊢      | ╁ | _         | H  | ╁ | +        | +            | _   |
| $\vdash$     | 22      | _    | 쉬            |          | ╁╴       | _ | -        | ┢      | + |           | ├  | t | +        | +            | _   |
| $\vdash$     | 24      |      | 7            | _        | ┝        | _ | ┝        | ┢      | + |           | -  | ╁ | 十        | +            | _   |
| -            | 2       | -    | <del>/</del> | -        | ╁        | - | $\vdash$ | ╁      | + |           | H  | t | +        | ┪            | _   |
| -            | 26      | -    | 7            | _        | +        | _ | $\vdash$ | t      | † |           | -  | ۲ | +        | 1            | _   |
| $\vdash$     | 27      | ٠,٠  | <del>/</del> | _        | ╁        | - | ┢        | ╁╴     | + | _         | $\vdash$   | t | +        | 1            | _   |
| ⊦            | 28      | ╗    | 7            | -        | ۲        | - | $\vdash$ | +-     | + | _         | H  | ╁ | +        | 7            | _   |
| $\vdash$     | 29      |      | 4            |          | ╁        | _ | ┢        | t      | ╁ | _         | ┢  | t | +        | 7            | _   |
| $\vdash$     | 3       | -    | V            |          | +        | - | ┢        | H      | + |           | $\vdash$   | t | ╅        |              | _   |
| $\vdash$     | 3       | _    | -71          | -        | 十        |   | +-       | t      | † |           | <del>                                     </del> | 十 | +        | 7            | _   |
| $\vdash$     | 3       |      | 1            |          | ╁        |   | $\vdash$ | +      | + |           | t  | t | ナ        | 1            | _   |
| $\vdash$     | 3       |      | -            | ĺ        | ╁        | - | H        | $^{+}$ | + |           | t  | t | +        | 寸            | _   |
| $\vdash$     | 3       | _    | 7            | _        | t        |   | $t^-$    | ╁      | 7 |           | T  | + | 1        |              | _   |
| -            | 3       | -    |              | _        | t        |   | 十        | T      | 7 | _         | $\vdash$   | t | +        |              | _   |
| $\vdash$     | 3       |      | J            | _        | $^{+}$   |   | ╁        | ╁      |   |           | T  | † | ┪        | $\neg$       | _   |
| $\vdash$     | 3       |      | J            | -        | t        |   | ✝        | †      | ┪ |           | t  | † | 7        |              | Г   |
| $\vdash$     | 3       |      | y            | H        | +        |   | +-       | †-     | 1 | _         | T  | T | 寸        |              | Г   |
| +            | (3      |      | 7            | 1        | t        | _ | t        | †      | 7 | _         | T  | Ť | 1        |              | Г   |
| $\vdash$     | 7       |      | 7            | H        | 十        |   | t        | T      |   | _         | T  | † | 1        |              | Γ   |
| +            | 4       | +    | <u>/</u>     | $\vdash$ | +        | - | T        | $^{+}$ | ┪ |           | +  | + | +        |              | Г   |
| -            | 4       |      | <u>/</u>     | $\vdash$ | +        | _ | +-       | +      | - |           | +  | + | $\dashv$ | -            | ۲   |
| $\vdash$     |         |      | <u>V</u>     | $\vdash$ | +        |   | +-       | +      | ٦ | $\vdash$  | ╁  | + | +        | _            | H   |
| H            |         | -    | <u>./</u>    | ┝        | +        | _ | +        | +      | + | H         | +  | + | +        | _            | H   |
| $\vdash$     |         | = 1  | <u>√</u>     | $\vdash$ | +        |   | +        | +      | + | -         | 十  | + | +        | _            | H   |
| $\vdash$     | _       | 6    | ₹            | ┝        | +        | _ | +-       | ╁      |   | -         | +  | + | -        |              | t   |
| -            |         | 7    | <del>\</del> | ╀        | +        |   | +        | +      | - | $\vdash$  | +  | + | +        | -            | t   |
| +            | _       | 8    | V.           | $\vdash$ | +        | _ | ╁        | +      | _ | -         | ╁  | + | $\dashv$ |              | t   |
| -            |         | 9    |              | $\vdash$ | +        |   | ╁        | +      | _ | $\vdash$  | +  | + | -        |              | t   |
| $\vdash$     | +=      | 쉬    |              | ⊢        | +        | _ | ┰        | +      | _ | ₩         | +  | + | 1        | _            | ۲   |

| F        | testri   | cted     | t        |    |   |          |   |    | 0            | 1        | ••••      |   | ••• | ••• | •••• | •••• |
|----------|----------|----------|----------|----|---|----------|---|----|--------------|----------|-----------|---|-----|-----|------|------|
| Cla      | im       | _        |          | _  | _ | _        | D | at | e            | _        |           | _ |     |     | _    |      |
| Final    | Original |          |          |    |   |          |   |    |              |          |           |   |     |     |      |      |
| <u>u</u> | 51       | ╁        | +        |    | + | -        | H | -  |              | +        | _         | t | 1   | _   | t    | -    |
| _        | 52       | 十        | +        | _  | t |          | - |    |              | 7        |           | T |     |     | 1    |      |
| _        | 53       | $\top$   | 寸        |    | Ť | _        |   |    |              | ٦        |           | Ī |     |     | T    |      |
|          | 54       | I        | 1        |    | T |          |   |    |              |          |           | I |     |     | 1    |      |
|          | 55       |          |          |    |   |          | L | _  | L            |          | _         | ļ |     | L   | 4    | _    |
|          | 56       | 1        | _        | _  | 1 |          | Ļ |    | L            | _        |           | ļ | _   | L   | 4    | _    |
|          | 57       | 4        | 4        | _  | 4 | _        | L | _  | L            | _        | _         | ╀ |     | -   | +    | _    |
| _        | 58       | +        | 4        | _  | + |          | Ļ |    | ┞            |          | _         | + | _   | ┞   | +    |      |
| _        | 59       | +        | -        | _  | + |          | ╀ | _  | ┞            | _        | _         | ╁ |     | ┝   | +    |      |
|          | 60       | -+       | $\dashv$ | _  | + |          | t |    | H            | -        | -         | + | _   | ┝   | +    | _    |
| -        | 62       | -+       | 1        | _  | + |          | t | _  | t            |          | ┢         | † |     | t   | †    |      |
| ┝        | 63       | -+       | 7        |    | + |          | t | _  | t            |          |           | † |     | t   | 1    |      |
| 一        | 64       | $\dashv$ | 7        | _  | † |          | t |    | t            | _        | Г         | † |     | T   | Ť    |      |
| Г        | 65       | T        |          |    | 7 |          | T |    | T            |          |           | Ι |     |     |      |      |
| Г        | 66       | I        |          |    | I |          | Ι |    | I            |          |           | I |     | L   | 1    |      |
|          | 67       | $\perp$  |          | _  | 1 |          | 1 |    | ļ            |          | L         | 4 |     | L   | 4    |      |
|          | 68       | 4        | _        |    | 4 | _        | ļ |    | 1            |          | L         | 4 | _   | Ļ   | 4    |      |
| L        | 69       | _        |          |    | 4 |          | 1 | _  | 1            |          | ļ.        | 4 | _   | +   | 4    |      |
| L        | 70       | ┙        |          |    | 4 |          | 1 |    | 1            | _        | Ļ         | 4 |     | ╀   | 4    |      |
| L        | 71       | 4        |          | _  | 4 | _        | 1 | _  | 4            | _        | 1         | 4 | _   | 1   | 4    | _    |
| L        | 72       | 4        |          | L  | 4 |          | + |    | 4            |          | ┞         | 4 |     | +   | -    | _    |
| $\vdash$ | 73<br>74 | $\dashv$ |          | ┞  | 4 | _        | + | _  | +            |          | ╁         | + | _   | t   | -    |      |
| -        | 75       | +        |          | H  | 4 | _        | + | -  | $^{\dagger}$ | -        | t         | 1 | _   | t   | 7    |      |
| H        | 76       | $\dashv$ |          | ۲  | T |          | † |    | †            | _        | t         | 7 | •   | t   | ī    | _    |
| $\vdash$ | 77       |          |          | t  | 7 |          | 1 | _  | t            | _        | T         | ┪ | _   | 1   |      | Г    |
|          | 78       |          | _        | Γ  | 1 |          | 1 |    | 1            |          | 1         |   |     | Ι   | _    |      |
|          | 79       |          |          |    |   |          |   |    |              |          | L         |   |     | 1   |      |      |
|          | 80       |          |          |    |   |          |   |    | 1            | _        | L         | _ |     | 1   | _    | _    |
| L        | 81       | _        |          | L  |   | L        | 4 |    | _            |          | 1         | 4 |     | 4   |      | L    |
| L        | 82       | _        |          | L  | _ |          | 4 | _  | 4            |          | 1         | 4 | _   | +   |      | L    |
| L        | 83       | -        |          | ∤- | _ | L        | - | _  | 4            |          | ╀         | 4 | -   | +   |      | H    |
| $\vdash$ | 84<br>85 | $\vdash$ |          | ╀  |   | $\vdash$ | ┨ | -  | ┨            | -        | +         | - | _   | +   |      | -    |
| $\vdash$ | 86       | $\vdash$ |          | t  | _ | ┝        | 1 | -  | +            | -        | +         | 1 |     | +   | _    | H    |
| $\vdash$ | 87       |          | _        | t  | _ | -        | 1 | -  | 1            | _        | $\dagger$ | _ | Г   | Ť   | _    | t    |
| -        | 88       |          | _        | t  | _ | ┪        | 1 | _  | 1            | _        | T         |   | _   | 1   |      | T    |
| 上        | 89       | П        |          | t  | _ | Γ        |   |    | 7            | _        | T         |   |     |     |      | L    |
| r        | 90       |          |          | T  |   |          |   |    | ٦            |          | Т         |   | Γ   | 1   |      |      |
|          | 91       | Г        |          | T  |   | Γ        |   |    | ٦            |          | T         |   | Γ   | J   | _    | Γ    |
| 1        | 92       |          |          | Ţ  |   | Ľ        |   |    |              |          | Ι         |   |     |     | _    | L    |
|          | 93       |          |          | I  |   | L        |   |    |              |          | Ţ         |   | Ĺ   |     | _    | L    |
|          | 94       |          |          | I  |   | L        |   |    |              | L.       | 1         |   | L   | _   | _    | Ļ    |
|          | 95       | L        | _        | 1  | _ | Ļ        |   | L  | _            | L        | 4         | _ | L   | 4   | _    | 1    |
| L        | 96       | L        | $\vdash$ | 4  |   | 1        |   | L  | _            | -        | 4         |   | L   | 4   | _    | ╀    |
| L        | 97       | $\vdash$ | $\vdash$ | 4  |   | ╀        | _ | L  | _            | $\vdash$ | +         | _ | ┞   | 4   |      | ╀    |
| L        | 98       | <u> </u> | L.       | 4  | _ | $\perp$  |   | L  |              | L        | 4         | _ | Ļ.  | _   | _    | ╀    |

| _     |          | _         |          |          | _ |   | _ |          | _ | _        | - |          |           | _        | _   | _        | _         | _         | ٦        |
|-------|----------|-----------|----------|----------|---|---|---|----------|---|----------|---|----------|-----------|----------|---|----------|-----------|-----------|----------|
| la    | im       | L         | _        | _        |   |   |   |          | ט | ate      | 9 | _        |           | Т        |   | Т        | 7         | _         | $\dashv$ |
| Final | Original |           |          |          |   |   |   |          |   |          |   |          |           |          |   |          |           |           |          |
| - !   | 101      | $\vdash$  | +        | -        | t | - | _ | 1        | _ | +        |   | 7        |           | †        | <u>,                                     </u> | t        | 7         | -         | 7        |
|       | 102      | t         | $\dashv$ | _        | t | ٦ | H | +        | _ | +        |   | +        | _         | +        | _   | t        | $\dashv$  | _         | ٦        |
|       | 103      | 1         | +        |          | + |   | - | $\dashv$ | H | 1        |   | 1        |           | +        |   | t        | 7         | _         | ٦        |
|       | 104      |           | $\dashv$ | _        | t |   | H | ┥        | H | $\dashv$ |   | $\dashv$ | _         | 7        | _   | t        |           | _         | ┪        |
| _     | 105      | t         | 1        |          | t |   | t | -        | T | ┪        | _ | ┪        |           | 7        |   | 1        |           |           |          |
|       | 106      |           | ┪        | _        | t | _ | T |          | r | T        | Γ |          |           | 7        |   | Ţ        |           | Ĺ         |          |
| _     | 107      |           | _        | _        | t |   | i |          | Γ |          |   |          |           | _        | _   | Ī        |           | [         | _        |
|       | 108      |           | ٦        | _        | T | _ | Γ |          |   |          |   |          |           |          |   | I        |           |           |          |
| _     | 109      |           |          |          | I |   |   | _        |   |          |   |          | Ĺ         |          | _   | 1        |           | L         |          |
|       | 110      | 1         |          |          | I |   | ſ | _        | Ĺ |          | Ĺ |          | Ĺ         | _        | _   | 1        |           | L         |          |
|       | 11       | Ī         |          | _        | Ţ |   | Ĺ | _        |   |          | L | _        | L         | _        |   | 4        |           | L         |          |
|       | 112      |           |          |          | 1 | _ | L | _        | ļ |          | L |          | L         | _        |   | 4        | _         | 1         |          |
| _     | 11:      |           | _        |          | 1 |   | ļ |          | 1 | _        | 1 |          | 1         | _        | _   | 4        |           | L         | _        |
| _     | 11       | 4         | _        |          | 4 |   | 1 |          | 1 | _        | ļ |          | ŀ         | _        | _   | 4        |           | ł         | _        |
|       | 11       |           | _        | L        | + |   | 1 | _        | ļ |          | 1 |          | ł         | _        | -   | 4        | _         | +         | _        |
|       | 11       |           |          | $\vdash$ | 4 | _ | + |          | + | _        | ╀ |          | +         | _        | -   | 4        |           | +         | _        |
| _     | 11       |           |          | $\vdash$ | + | _ | + | _        | + |          | ł | _        | +         | _        | -   | $\dashv$ |           | t         | _        |
| _     | 11       |           |          | $\vdash$ | + | - | + |          | + | _        | t |          | $\dagger$ |          | -   | $\dashv$ | -         | t         | _        |
|       | 12       |           |          | -        | + |   | + |          | + | _        | + | _        | t         | -        | $\vdash$                                      | ٦        |           | t         | _        |
|       |          | _         | -        | L        | + |   | + |          | + | _        | ł | _        | +         |          | $\vdash$                                      | -        | _         | $\dagger$ |          |
|       | 12       |           |          | ┝        | + | _ | + |          | + | _        | + | -        | +         |          | ⊢   | -        | _         | $\dagger$ | _        |
| _     | 12       |           |          | ├        | + | _ | + | _        | + |          | + | _        | +         |          | H   | ۲        | -         | t         | -        |
| _     | 12       |           |          | $\vdash$ | + |   | + |          | + | _        | + |          | +         |          | t   | -        | Н         | †         | _        |
|       | 12       |           |          | H        | 1 | _ | + | -        | + | _        | † | _        | t         | _        | t   |          | H         | t         | _        |
| _     | 12       |           |          | +        | ٦ |   | † | _        | + |          | † |          | †         |          | T   | _        | Τ         | †         | _        |
|       | 12       | 7         |          | t        | ٦ |   | 1 | _        | † |          | 1 |          | t         |          | T   |          |           | †         | _        |
| _     | 12       |           | $\vdash$ | T        | ٦ | _ | 1 |          | 1 |          | 1 | _        | 1         |          | T   |          | Γ         | 1         | _        |
|       | 12       |           |          | T        | ٦ | Г | 1 | _        | 1 | _        | 1 | _        |           | _        | Ι   |          |           | I         |          |
|       | 13       | 0         |          | T        | _ |   | J |          | J | _        |   |          |           | _        | I   | _        |           | I         |          |
|       | 13       | 31        |          | Ι        |   |   |   |          |   |          |   | _        |           |          | Γ   | _        |           |           |          |
| _     | 13       | 32        |          | Ι        |   |   |   |          |   |          |   |          | I         | _        | Ĺ   |          | Ĺ         | 1         | _        |
|       | 13       | 33        |          | I        |   |   |   |          | _ |          |   |          | _[        |          | L   | _        | L         | _ļ        |          |
|       | 1:       | 34        |          |          |   | Ĺ |   |          |   |          |   | _        | 1         |          | 1   | _        | L         | 4         | _        |
|       | 1:       |           |          | Ŀ        |   | Ĺ |   | L        |   | L        | _ | L        | _         |          | 1   |          | 1         | 4         | -        |
| L     | 1:       |           |          | ↓        |   | L |   | L        |   | L        | 4 | _        | 4         |          | 1   |          | ┞         | 4         | -        |
| L     |          | 37        |          | ļ        |   | L |   | Ļ        | _ | L        | _ | _        | 4         |          | +   |          | ŀ         | 4         | ŀ        |
| L     | 13       |           |          | 1        | _ | - |   | Ĺ        | _ | $\vdash$ | _ | -        | 4         | _        | +   |          | $\vdash$  | 4         | H        |
| L     | 1:       | 39        | 1        | +        | _ | L | _ | $\vdash$ | _ | $\vdash$ |   | -        | -         |          | +   | _        | +         | _         | H        |
| L     | 1        | <b>‡C</b> | _        | +        | _ | 1 | _ | -        |   | -        |   | H        | 4         | -        | +   |          | +         | 4         | H        |
| L     | -        | 4         | -        | +        |   | L | _ | -        | _ | -        | _ | L        | _         | L        | +   |          | ╀         | 4         | -        |
| L     |          | 42        |          | +        |   | L | _ | L        |   | L        |   | -        | _         | -        | +   |          | ╀         | _         | -        |
| L     |          | 4:        |          | +        |   | H | _ | $\vdash$ |   | $\vdash$ | _ | L        | _         | -        | +   | _        | +         | _         | $\vdash$ |
| L     |          | 44        |          | +        |   | 1 | _ | ╀        |   | $\vdash$ | _ | $\vdash$ | _         | H        | +   | -        | +         | _         | $\vdash$ |
| L     |          | 45        |          | +        |   | + | _ | +        | _ | +        | - | H        | _         | H        | +   |          | +         | _         | $\vdash$ |
| L     | 1        | 46        | 1        | +        |   | + | _ | ╀        |   | $\vdash$ | _ | H        | -         | $\vdash$ | +   |          | +         | _         | +        |
| ŀ     | _[       | 4         | 1        | +        | _ | ╀ | _ | ╀        |   | ╀        |   | $\vdash$ |           | H        | +   |          | ╁         | _         | $\vdash$ |
| H     | -[       | 4         | 1        | +        |   | + | - | ╁        |   | $\vdash$ |   | +        | _         | -        | +   | _        | +         | _         | ╁        |
| H     | - [1     | 4:<br>5:  | +        | +        | _ | + | - | H        | _ | t        |   | $\vdash$ | _         | +        | +   |          | $\dagger$ | _         | t        |
| L     | _1,      | <u></u>   | 1_       | _        | - | _ | - | _        | _ | _        |   | _        | -         |          | _   | -        | _         | _         | _        |

If more than 150 claims or 10 actions staple additional sheet here

(LEFT INSIDE)

